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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/5	560,321	12/09/2005	Rafael Wiemker	PHDE030201US	4955
	NOTE OF THE PROPERTY & STANDARDS 595 MINER ROAD			EXAMINER	
59:				STREGE, JOHN B	
CL	.EVELAND,	OH 44143	44143 ART UNIT PAPER NUMBER		
				2624	
				MAIL DATE .	DELIVERY MODE
		•		09/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
	065 4 4 0 0 0 0	10/560,321	WIEMKER ET AL.				
	Office Action Summary	Examiner	Art Unit				
		John B. Strege	2624				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address				
WHIC - Exter after - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING DA asions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. be period for reply is specified above, the maximum statutory period of the reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be the twill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1) 🛛	Responsive to communication(s) filed on <u>09 D</u>	ecember 2005					
2a)□		action is non-final.					
•	Since this application is in condition for allowar		rosecution as to the merits is				
- ,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
·	Claim(s) <u>1-10</u> is/are pending in the application						
·	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
	Claim(s) <u>1-4 and 7-10</u> is/are rejected.						
	Claim(s) <u>5 and 6</u> is/are objected to.						
· <u> </u>	Claim(s) are subject to restriction and/o	r election requirement.					
·	ion Papers						
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>09 December 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the		• •				
44	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority document		Care No.				
2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the prio		ved in this National Stage				
* 0	application from the International Burea	, ,,	and .				
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen		∆ □	(DTO 442)				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summai Paper Nò(s)/Mail I					
3) X Infor	mation Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal	Patent Application				
Paper No(s)/Mail Date <u>12/09/05</u> . 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, and 7-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Uppaluri et al. USPN 6,466,687 (hereinafter "Uppaluri").

Uppaluri discloses a method for analyzing pulmonary three-dimensional CT Data (col. 4 lines 9-28), wherein the three-dimensional CT data include a plurality of two-dimensional slice images having image elements (col. 4 lines 24-28), wherein values of the image elements correspond to Hounsfield units (all CT scanners use Hounsfield units thus this limitation is inherent, see USPGPUB 2004/0252870 paragraph [0037] for support), the method comprising the steps of: loading the three-dimensional CT data (col. 4 lines 9-28); and performing a detection of ground glass opacities in the plurality of two-dimensional slice images of the three-dimensional CT data on the basis of a texture analysis (col. 1 lines 16-22, col. 18 lines 5-20).

Regarding claim 2, Uppaluri discloses the method of claim 1, wherein the texture analysis includes the step of: determining a typical Hounsfield value of a local

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pulmonary parenchyma on the basis of a peak of a texture based roughness-histogram (col. 4 lines 9-28, col. 6 lines 34-51).

Regarding claim 3, Uppaluri discloses wherein the texture analysis includes the steps of: computing a typical parenchyma Hounsfield value for the lung; and marking all areas in the lung area with a Hounsfield value higher than the typical parenchyma Hounsfield value (col. 6 line 34-col. 8 line 16).

Regarding claim 4, Uppaluri discloses a first and second texture measure performing segmentation of the lung (col. 6 line 34-col. 8 line 16).

Claim 7 is similarly analyzed to claim 1.

Claim 8 is similarly analyzed to claim 2.

Claim 9 is similarly analyzed to claim 3.

Claim 10 is similarly analyzed to claim 1.

Allowable Subject Matter

Claims 5-6 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

USPGPUB 2004/0252870 System and method for three-dimensional image rendering and analysis.

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USPN 6,728,334 Automatic detection of pulmonary nodules on volumetric computed tomography images using a local density maximum algorithm.

USPGPUB 2004/0151356 Method for computer aided detection of nodules with three dimensional shape enhancement filters.

Delorme et al. Usual interstitial pneumonia. Quantitative assessment of high-resolution computed tomography findings by computer-assisted texture-based image analysis.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Strege whose telephone number is (571) 272-7457. The examiner can normally be reached on Monday-Friday between the hours of 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on (571) 272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JS

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